(650) 326-2400

Applicant: Atsushi Tanaka et al.
Atty Docket No. 16869K-112900US

**Appln. No.** 10/817,032 **Confirmation No.** 2793

Title: Network Converter and Information Processing System

Sheet 1 of 7

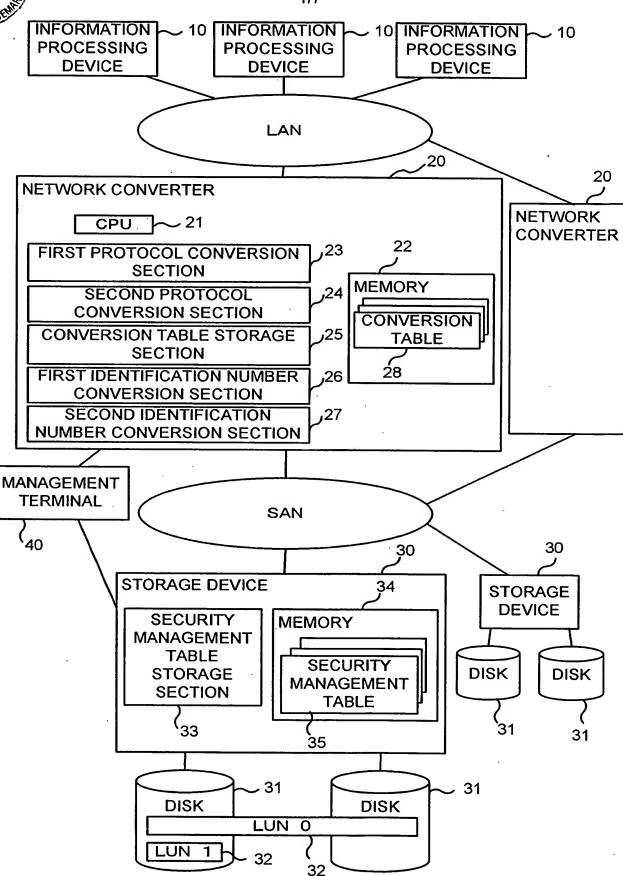


Fig. 1

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iSCSI NAME	Node_Name(WWN)	N_Port_Name(WWN)		
INFORMATION PROCESSING DEVICE #1	01020304	0101ABCD	\~`	
INFORMATION PROCESSING DEVICE #2	030A0B0C	0201EF01		
:	:	:		
STORAGE DEVICE #1	<sup>-</sup> 0A010203	0A020100		
:	:	:		
default	FFFFFFF (ACCESS DISABLED)	FFFFFFF (ACCESS DISABLED)		

Fig. 2

Node_Name(WWN)	N_Port_Name(WWN)	LUNO	LUN1		LUNn	35
01020304	0101ABCD	1	0	•••	0	
030A0B0C	0201EF01	0	1		1	
:	:	:	•		i	
FFFFFFF (ACCESS DISABLED)	FFFFFFF (ACCESS DISABLED)	0	0		0	

Fig. 3

Robert C. Colwell, Reg. No. 27,431 (650) 326-2400 Applicant: Atsushi Tanaka et al. Appln. No. 10/817,032 Atty Docket No. 16869K-112900US Confirmation No. 2793 Title: Network Converter and Information Processing System Sheet 3 of 7 3/7 **START** RECEIVE COMBINATION OF S401 **NETWORK CONVERTER AND** STORAGE DEVICE RECEIVE COMBINATION OF S402 **ISCSI NAME AND LUN OF** STORAGE DEVICE RECEIVE COMBINATION OF ISCSI NAME AND LUN OF INFORMATION S403 PROCESSING DEVICE HAVING **ACCESS PERMISSION** S404 WWN NO AUTOMATICALLY GENERATED? S406 YES **RECEIVE WWN GENERATE WWN** CORRESPONDING ISCSI S405 CORRESPONDING TO ISCSI NAME OF INFORMATION NAME OF INFORMATION PROCESSING DEVICE PROCESSING DEVICE HAVING **HAVING ACCESS ACCESS PERMISSION** PERMISSION TRANSMIT COMBINATION OF WWN AND LUN OF INFORMATION PROCESSING S407 DEVICE HAVING ACCESS PERMISSION TO STORAGE DEVICE TRANSMIT COMBINATION OF ISCSI **S408** NAME AND WWN OF STORAGE DEVICE TO NETWORK CONVERTER TRANSMIT COMBINATION OF ISCSI NAME AND WWN OF INFORMATION PROCESSING DEVICE HAVING ACCESS **S409** PERMISSION TO NETWORK CONVERTER

Fig. 4

**END** 

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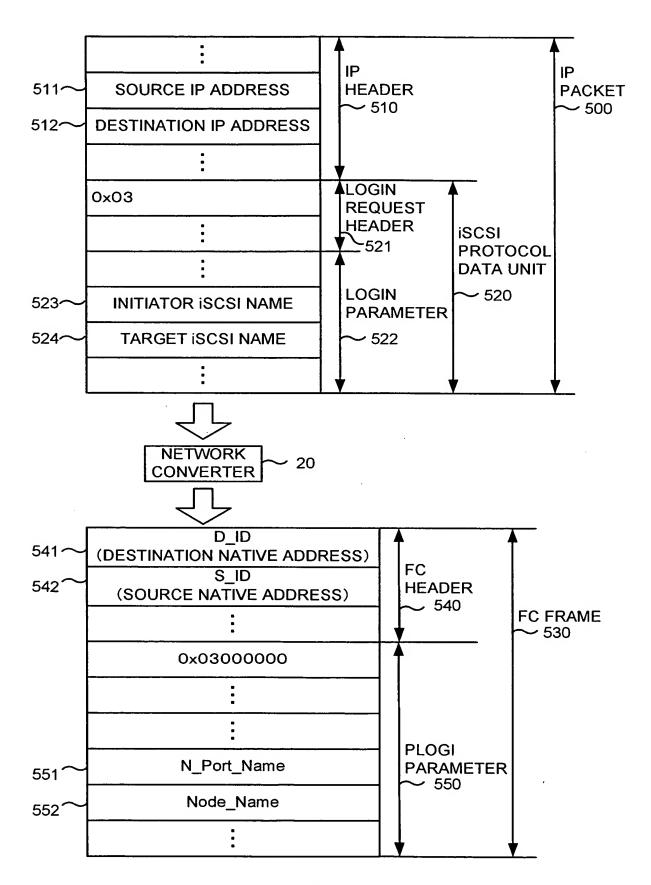


Fig. 5

Robert C. Colwell, Reg. No. 27,431 (650) 326-2400 Applicant: Atsushi Tanaka et al. Appln. No. 10/817,032 Atty Docket No. 16869K-112900US Confirmation No. 2793 Title: Network Converter and Information Processing System Sheet 5 of 7 5/7 <INFORMATION <NETWORK CONVERTER> <STORAGE DEVICE> **PRCESSING** S602 ACQUIRE WWN OF **DEVICE>** INFORMATION PROCESSING **DEVICE S**603 TRANSMIT FC LOGIN OF INFORMATION **ISCSI LOGIN** PROCESSING DEVICE REQUEST **S604** ACQUIRE NATIVE ADDRESS OF INFORMATION PROCESSING S601 **DEVICE S605** ACQUIRE WWN OF STORAGE DEVICE **,**S606 ACQUIRE NATIVE ADDRESS OF STORAGE DEVICE STORE WWN AND \$607 S ID AND TRANSMIT FC FRAME (PLOGI) TRANSMIT ACC (INCLUDING WWN AND S ID) **FRAME** ,S609 ACQUIRE WWNS OF S608 INFORMATION PROCESSING DEVICE AND STORAGE DEVICE S612 ACQUIRE ISCSI NAMES OF S610 INFORMATION PROCESSING DEVICE AND STORAGE DEVICE TRANSMIT SCSI RETURN ISCSI LOGIN S611 COMMAND RESPONSE (INCLUDING LUN) **ACQUIRE WWNS OF** S613 INFORMATION PROCESSING DEVICE AND STORAGE DEVICE S616 **ACQUIRE NATIVE ADDRESSES** CHECK ACCESS OF INFORMATION PROCESSING S614 **ENABLE/DISABLE** DEVICE AND STORAGE DEVICE OF INFORMATION **PROCESSING** TRANSMIT FC FRAME S615 DEVICE BASED (INCLUDING S ID AND LUN) ON S ID AND LUN S618, **ACQUIRE WWNS OF** INFORMATION PROCESSING TRANSMIT FC DEVICE AND STORAGE DEVICE FRAME S621 INCLUDING ISCSI ACQUIRE ISCSI NAMES OF COMMAND INFORMATION PROCESSING RECEIVE SCSI S619 **PROCESSING** DEVICE AND STORAGE DEVICE COMMAND RESULT **PROCESSING** TRANSMIT SCSI RESPONSE S620 RESULT INCLUDING SCSI COMMAND S617

PROCESSING RESULT

Fig. 6

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	N_Port_Name(WWN)	Node_Name(WWN)	NATIVE ADDRESS
~ 701	0101ABCD	01020304	0001
1	0201EF01	030A0B0C	0002
	:	:	:
7	FFFFFFF	FFFFFFF	0005

Fig. 7

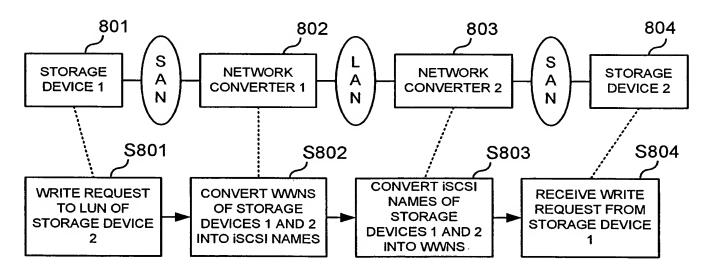


Fig. 8

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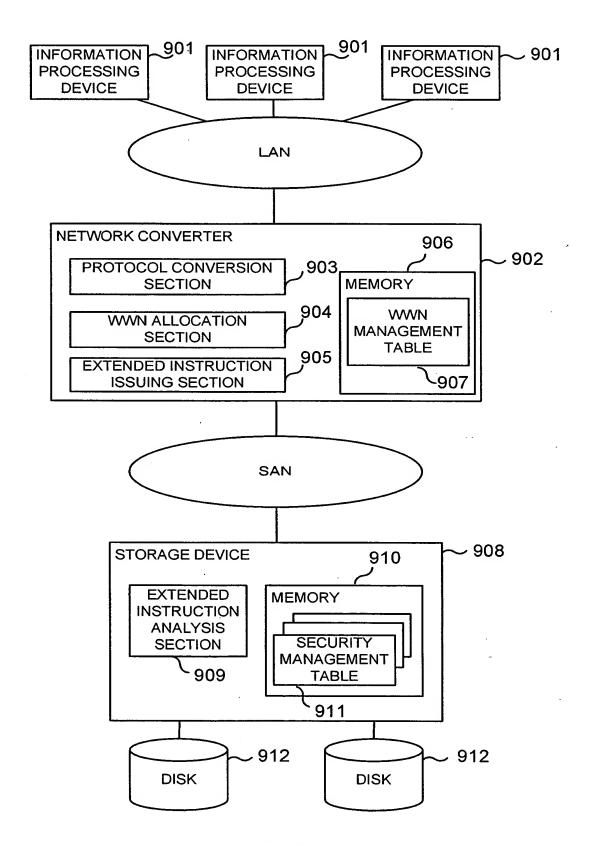


Fig. 9